Student Name:	Date:
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# PROGRAM COMPETENCY PROFILE FOR CAREER TECHNICAL EDUCATION Career Cluster: Manufacturing

Program Name: Manufacturing Technology/Technician CIP: 150613

Effective 3/10

National Standard: National Council for Advanced Manufacturing (NACFAM)

	ional Council for Advanced Manufactur	, , , , , , , , , , , , , , , , , , ,	T
Competencies	Knowledge, Content and Skills	NH Frameworks	Rating Scale -Sample Performance Assessments
(statement that provides	(what a student needs to know and be able	www.ed.state.nh.us/frameworks	(Performance tasks the student needs to demonstrate in order to be
the overview and defines	to do and upon which they will be assessed)	Science: S English Language Arts: LA	rated proficient in meeting the competency)
the instructional area)		Mathematics: M	
Student will:	Student will:		Student Will:
Understand the		S:SPS1:8:3:3/R	
concepts, procedures,	1. Demonstrate, apply, and practice	S:SPS1:11:3.1/T	
methods and practices	appropriate laboratory safety.		
related to safety in	AAI 8. Health, Safety, and Environment:		
order to provide a safe	Explain the health and safety laws and		
work environment	practices affecting the employee, the		
	surrounding community, and the		
	environment in this industry.		
		S:SPS4:8:4.1/R	1 2 3 4
	2. Using standard procedures, demonstrate	S:SPS1:2:2.1/T	
	approved safe use of all basic hand tools	S:SPS3:2:3.1/R	
	used for precision machining processes (i.e.,	S:SPS4:2:1.2/R	
	files, saws, tap and dies, hammers, scribes,		
	etc.).		
		S:SPS1:8:3:3/R	1 2 3 4
	3. Demonstrate, apply, and practice	S:SPS1:11:3.1/T	
	appropriate personal safety.		
	11 I share was says		1 2 3 4
	4. Recognize hazardous materials and		
	interpret MSDS requirements.		
Understand the	1		1 2 3 4
underlying principles of	5. Demonstrate the ability to create Technical		
and the interaction	Drawings and Schematics and its application		
between multiple	to the manufacturing processes.		
disciplines in the	<i>C</i> 1		
manufacturing process			

**Key: Rating Scale:** 1 NO EXPOSURE; 2 = NOVICE (Information was covered in class, but student cannot demonstrate skill or knowledge without significant supervision); 3 = PROFICIENT (Student regularly demonstrates the knowledge or skill); 4= MASTERY (Student demonstrates successful completion of this skill numerous times without supervision.)

Framework: Targeted = Framework slights to competency: Polyted = Framework supports competency: \* NECAP Assessment Expectation.

<u>Framework</u>: Targeted= Framework aligns to competency Related= Framework supports competency \* = NECAP Assessment Expectation

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Competencies
(statement that provides the overview and defines the instructional area)
Student will:

Knowledge, Content and Skills
(what a student needs to know and be able to do and upon which they will be assessed)
Student will:

Knowledge, Content and Skills
(what a student needs to know and be able to do and upon which they will be assessed)
Student will:

Rating Scale -Sample Performance Assessments
(Performance tasks the student needs to demonstrate in order to be rated proficient in meeting the competency)

Student will:

Student will:

Student will:

Student will:

Student will:

Student will:	Student will:	1.140110111401050 1.12	Student will:
	6. Demonstrate CAD Drawing Fundamentals and its application to a manufacturing project.		
	7. Describe various Troubleshooting Processes as they apply to the manufacturing processes.		
Understand machines and mechanisms as used in manufacturing	8. Demonstrate the use of various tools and machines and describe their function and use in manufacturing.		
	9. Discuss and explain the five types of machine tools and their uses.		1 2 3 4
	10. Demonstrate the use of measurements and how to apply them in manufacturing.		
	11. Show the operation of various Hand tools: Drill Press, Band Saw, CNC Machine.		
Understand the		S:PS3:11:1.2/T	1 2 3 4
principles and concepts	12. Identify and calculate examples of	S:PS3:11:1.1,3/R	
of robotics and their	electrical laws and basic measurements	*S:PS3:11:1.8/R	
use in manufacturing	(Ohm's, Kirchhoff's, and watts) applied to series and parallel circuits, impedance, capacitance, inductance and magnetism.		

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Student win:	Student win:	Student win:
Understand computer/controller programming as applied to the manufacturing process	19. Write a basic CNC program and describe what it entails.	1 2 3 4
	20. Demonstrate application of Cartesian coordinates for milling machines and/or lathes.	
	21. Demonstrate concepts of tool offsets (i.e., tool fixture, length, and radius).	1 2 3 4
	22. Demonstrate application of basic nontraditional machining processes.	
Understand the dynamics of hydraulic and pneumatic systems in manufacturing	23. Illustrate the fundamentals of mechanical power and how it is used in the manufacturing process.	
	24. Demonstrate and explain pneumatic and hydraulic symbols and circuits.	1 2 3 4
Understand the principles of electrical systems as applied to manufacturing	25. Follow safe work practices in accordance with OSHA, NED and Local codes.	

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Student will:	Student will:	Wathematics: W	Student will:
Understand and apply the inspection tools and methods for controlling quality	34. Identify various types of power saws and their purposes for cutting.		1 2 3 4
	35. Set up and safely perform material cutting operations.		
	36. Identify, set up, and safely operate a drill press (operations include hole drilling, reaming, and countersinking).		1 2 3 4
	37. Set up and safely perform off-hand grinding (operations include tool bit sharpening and drill-bit sharpening).		
	38. Identify, set up, and safely operate a precision surface grinder (operations include wheel selection and precision grinding to .001").		
	39. Identify, set up, and safely operate a milling machine (operations include, but should not be limited to, edge milling, face milling, selection of proper speeds and feeds).		1 2 3 4

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Student will:	Student will:		Student will:
Understand the fundamental concepts of entrepreneurship and how entrepreneurship influences the economy	40. Identify, set up, and safely operate a lathe (operations include, but should not be limited to, turning, facing, threading, knurling, and selection of proper speeds and feeds).  41. Identify the resources and steps needed for venture startup and operation and options in planning the venture's future (growth, development, demise).  AAI 1. Planning: Explain the key elements of a long-term plan for a successful company.  AAI 2. Management: Discuss the different forms of management and ownership within this industry.  AAI 6. Labor Issues: Explain the employees' and employers' rights and responsibilities in this industry.  AAI 7. Community Issues: Discuss the ways a company can impact its community and the ways community can impact a company.		1 2 3 4
Understand the		S:SPS4:8:9.1/R	1 2 3 4
importance of personal	42. Demonstrate personal growth,	S:SPS4:12:8.1/R	
growth and leadership	community leadership, democratic principles	S:SPS4:12:9.1/R	
to enhance career	and social responsibility.		
success			

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Understand the necessary employability skills in order to achieve success in today's workplace	Decision-Making & Problem Solving:  43. Demonstrate and apply good decision making and problem solving skills by outlining issues in situations/problems and determining, collecting, and organizing information needed in order to formulate a solution.	S:SPS4:8:1.1-3/R S:SPS4:8:3.1-3/R S:SPS4:8:4.1-2/R S:SPS4:8:7.1/R S:SPS4:8:1/R S:SPS4:12:1.1-3/T S:SPS4:12:3.1-3/T S:SPS4:12:4.1-3/T S:SPS4:12:7.1,2/T	For Example: - create an outline - create a troubleshooting log - make class presentation - develop and test strategies or options that work - provide examples of the strategies or options tested or tried - compare and analyze pros and cons of identified strategies or options - through teamwork, arrive at a decision or determine a solution that is well suited to the task - independently arrive at a decision or determine a solution that is well suited to the task - communicate in a clear format how the solution was formed - justify or describe how and why a particular solution option was chosen
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- set individual goals and document progress toward achieving those

- adapt as necessary to create a positive outcome for self and others

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Competencies (statement that provides the overview and defines the instructional area) Student will:	Knowledge, Content and Skills (what a student needs to know and be able to do and upon which they will be assessed)  Student will:	NH Frameworks www.ed.state.nh.us/frameworks Science: S English Language Arts: LA Mathematics: M	Rating Scale -Sample Performance Assessments (Performance tasks the student needs to demonstrate in order to be rated proficient in meeting the competency)  Student will:
	Self –Management: 44. Demonstrate and apply self-management skills by adhering to regulations, being responsible, and following through on commitments.	S:SPS3:8:1,4/R S:SPS4:12:7.2/R S:SPS4:12:3.1/T	For Example: - have a written test on applicable policies and procedures - assess student orientation knowledge through instructor observation and written unit test - review student handbook - adhere to regulations in school, classroom, and everyday settings - build trust by being consistent, dependable, and verbally positive with others - ask questions and listen to others - keep track of assignments and/or responsibilities - have work done on time - respond positively to constructive feedback - show respect for others and their points of view

goals

- take initiative to pursue learning

- advocate appropriately for himself/herself

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45. De comm	munication Skills: emonstrate and apply effective nunication skills: verbal, written, visual, stening.	S:SPS3:8:1,4/R S:SPS4:8:2.1/T S:SPS4:8:5.1/T S:SPS4:12:2.1-3/T S:SPS4:12:5.1,2/T S:SPS4:12:6.2/T	For Example:  be given a work order that contains written instructions of a specific job and complete the work order - create a power point presentation
		S:SPS4:12:6.2/T	<ul> <li>participate in a debate</li> <li>perform mock interviews</li> <li>develop a topic</li> <li>include details to support a main point</li> <li>use appropriate grammar and sentence structure</li> <li>organize writing and/or presentation materials</li> <li>use constructive feedback to improve skill</li> <li>participate in discussion and conversation by listening, entering in, taking turns, responding to others remarks, asking questions, summarizing and closing, as appropriate to the given context</li> <li>use varied vocabulary for clarity and effectiveness</li> <li>support his/her ideas in a public forum using the appropriate visual/audio aides</li> <li>select and use the appropriate media and method(s) to communicate the subject effectively</li> </ul>
			<ul> <li>adapt writing, speaking, and/or visual representations effectively to a particular audience</li> <li>act on or respond appropriately to verbal and non-verbal cues from the audience</li> </ul>

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the overview and defines	to do and upon which they will be assessed)	Science: S	rated proficient in meeting the competency)
the instructional area)	,	English Language Arts: LA	
Student will:	Student will:	Mathematics: M	Student will:

Ability to Work with Others:	S:SPS4:8:6.1-3/R	1 2 3 4
· ·		
Ability to Work with Others: 46. Demonstrate and apply the necessary skills in order to work effectively with others.  AAI 9. Personal Work Habits: Explain the work habits an employer looks for in an employee in this industry.	S:SPS4:8:6.1-3/R S:SPS4:8:9.1/R S:SPS3:8:1.1-4/T S:SPS4:12:6.1,2/T S:SPS412:8.1/T S:SPS4:12:9.1/T	For Example: - role play a situation in which there is a conflict which must be resolved - compose a list of what she/he believes to be the most common problems within that profession after reviewing appropriate work ethics standards - conduct an interview with a manager and share report with classmates - demonstrate knowledge of individual strengths he/she brings to a group - demonstrate knowledge of and respect for cultural and individual differences - demonstrate beginning skills in conflict management by outlining the issues involved and others' points of view - demonstrate knowledge of the possible roles and responsibilities that individuals assume while working with others - demonstrate knowledge of group skills: listening, brainstorming, clarifying information, showing initiative, acknowledging contributions, defining group tasks, and responding positively to constructive feedback - demonstrate increasing skills in conflict management by brainstorming a variety of solutions and their possible outcomes - apply his/her individual strengths to enhance a group's performance - assume responsibilities within a group
		- demonstrate the use of group skills in a way that enhances a group's performance
		<ul> <li>demonstrate skills in conflict management by describing, justifying,</li> <li>and applying a resolution process, and reflecting on the outcome</li> </ul>

**Key: Rating Scale:** 1 NO EXPOSURE; 2 = NOVICE (Information was covered in class, but student cannot demonstrate skill or knowledge without significant supervision); 3 = PROFICIENT (Student regularly demonstrates the knowledge or skill); 4= MASTERY (Student demonstrates successful completion of this skill numerous times without supervision.) **Framework:** Targeted= Framework aligns to competency Related= Framework supports competency \* = NECAP Assessment Expectation

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Information Use - Research, Analysis, Technology: 47. Demonstrate and apply the use of information through research, analysis, and technology.	S:LS5:12:1.1/R S:SPS4:8:1.1-3/R S:SPS4:8:3.1-3/R S:SPS4:8:4.1,2/R S:SPS4:12:1.1-3/T S:SPS4:12:3.1-3/T S:SPS4:12:4.1-3/T S:SPS4:12:9.1/T S:SPS4:12.5.2,3/T	For Example: do a research project and develop a presentation for the class - keep a daily notebook - show use of a plan for gathering information - gather information from a variety of sources, using a variety of technologies - use sources that are current and appropriate to the topic - valuate sources for correct and trustworthy information - document sources of information appropriately - demonstrate and apply the skills in using software applications (MS Office) - use a filing/organization system for information, such as notebook, disk, etc justify the use of a particular organizational system for a particular product - demonstrate effective communication skills (written, oral, listening) - effectively present a thesis, supporting evidence, and a conclusion using a variety of media
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the instructional area)		English Language Arts: LA	
Student will:	Student will:	Mathematics: M	Student will:
	Mathematical Concepts:	S:ESS4:8:1.2/R	1 2 3 4
	48. Demonstrate mathematical and	S:ESS4:8:2.2/R	For Example:
	computation skills as applied to real world	S:PS4:8:2.1/R	- keep a log of all possible uses of mathematics noticed throughout the
	situations.	S:SPS4:8.7.1/R	class/lab/worksite
	AAI 2 Eimanaa E-ulain tha lass	C.CDC1.11 / 1/T	

Mathematical Concepts:  48. Demonstrate mathematical and computation skills as applied to real world situations.  AAI 3. Finance: Explain the key components of financial management of a company.	S:ESS4:8:1.2/R S:ESS4:8:2.2/R S:PS4:8:2.1/R S:SPS4:8.7.1/R S:SPS1:11.4.1/T S:SPS4:12.1.3/R S:SPS4:12.4.2/T S:SPS4:12.8.2/T	For Example: - keep a log of all possible uses of mathematics noticed throughout the class/lab/worksite - compute accurately, applying addition, subtraction, multiplication, and division on real numbers, fractions, percents, and decimals - collect, interpret, organize and display relevant data for solving a mathematics problem - translate real world problems into mathematical representations - express and present mathematical ideas clearly in everyday written and oral language - express in written and oral language how mathematics connects to other contexts outside the mathematics classroom - use basic numerical concepts such as whole numbers and percentages in practical situations; make reasonable estimates of arithmetic results without a calculator; and use tables, graphs, diagrams, and charts to obtain or convey quantitative information - approach practical problems by choosing appropriately from a variety of mathematical techniques; use quantitative data to construct logical explanations for real world situations; express mathematical ideas and concepts orally and in writing; and understand the role of chance in the occurrence and prediction of events
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Student will:	Student will:	Wathematics: W	Student will:
	General Safety:	S:SPS4:12:4.2/T	1 2 3 4 For Example:
	49. Demonstrate and apply safe practices and procedures in the workplace.		For Example: - develop scenarios of hazards and accidents using publications and the internet - be observed by teacher - take written quizzes/written tests - demonstrate knowledge of safety and sanitation practices and procedures - identify and report hazardous conditions and safe working procedures
			- use personal protective equipment and clothing
	Career Development: 50. Demonstrate personal/career development skills by completing a career plan.		For Example:  - complete a self-awareness inventory  - develop a career portfolio  - use a career software, such as Choices, to measure their aptitudes and abilities for particular careers  - use available resources (college catalogs and websites) to research information about postsecondary educational opportunities  - select a career in the field and outline educational and skill requirements, expected job growth, and salaries  - review with teacher software printout to assess their aptitudes and abilities  - make appropriate choices in pursuit of postsecondary education or
			training and/or direct entry into the world of work - plan a senior experiential project to review and evaluate a variety of career choices

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